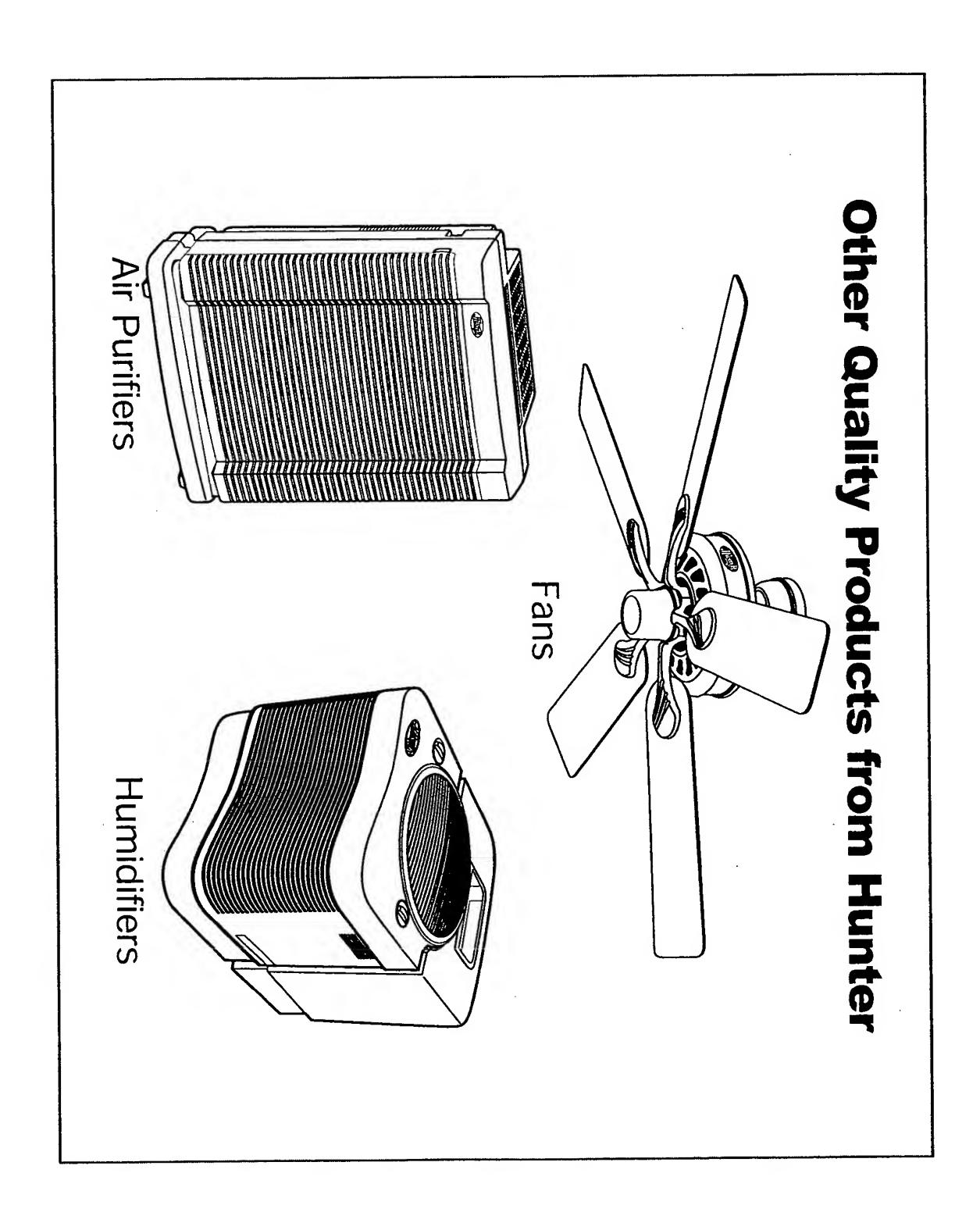
SINCE Owner's Manual 1886 1200/44250



products are manufactured to high quality standards and are designed for years of service. We are pleased you have selected one of our broad line of home comfort products. Our Hunter product.

Table Of Contents

We hope you will be satisfied and thank you for buying a

| | Trouble Shooting Guide | Filter Monitor | Temperature Span | Manual Overide | Reviewing Program Settings | Personal Program Schedule | Operation Programming/Setting Clock | Connecting Wires and Mounting Thermostat | System Selector Switches | Labeling Wires | Remove Old Thermostat | Installation Features | lable of Contents |
|----|------------------------|----------------|------------------|----------------|----------------------------|---------------------------|-------------------------------------|--|--------------------------|----------------|-----------------------|-----------------------|-------------------|
| | _ | | - | | ttings | edule | Clock | Mounting Thermostat | hes | _ | at | | |
| 22 | 30 | 29 | 28 | 25 | 24 | 20 | 16 | 14 | 14 | 10 | 8 | 6 | |

Read This Before Installing Thermostat

IMPORTANT

- to install or operate your Hunter Thermostat. Read the entire installation section of this Owner's Manual thoroughly before you begin
- window. Remove the mylar label from the display

INSTALLATION

All installation is normally performed at your thermostat.

PROGRAMMING

functions of your Hunter Thermostat. good way to familiarize yourself with all the you relax in your favorite chair and is a very instructions on page 14. This can be done while connecting the batteries and following the 3 You can practice programming before installing volumes the second seco installing your thermostat by inserting and

OPERATION

hot water heating, and air conditioning systems 4 operate with most gas, oil, electric or 2-wire Your Hunter Thermostat is designed to

> that have 24-volt or millivolt control.

systems, or 3 wire zone systems. stage heating or cooling systems, 110/220 V This Hunter Thermostat will not control multi-

COMPRESSOR PROTECTION

damage to your air conditioner compressor can be restarted. This feature will prevent delay when there are power outages caused by rapid cycling. It does not provide a The thermostat provides a 4-minute delay after shutting off the compressor before it

TEMPERATURE RANGE

and 37°C). display room temperatures from 32°F to 99°F (0°C Your thermostat can be programmed between 10°F and 95°F (5°C and 35°C). However, it will

POWER FAILURE

and current time. Whenever the main power is interrupted or fails, the battery power retains the programs

BATTERY WARNING

When the batteries are low, the "LOW BATT" indicator on the display will flash. When this happens, install new batteries immediately. Once the "LOW BATT" indicator appears, the thermostat will continue to operate for approximately 30 days. (Only alkaline batteries should be used in your thermostat. Rechargeable batteries have different properties which may cause the thermostat to not operate properly. Do not use old batteries.) The batteries should last one year.

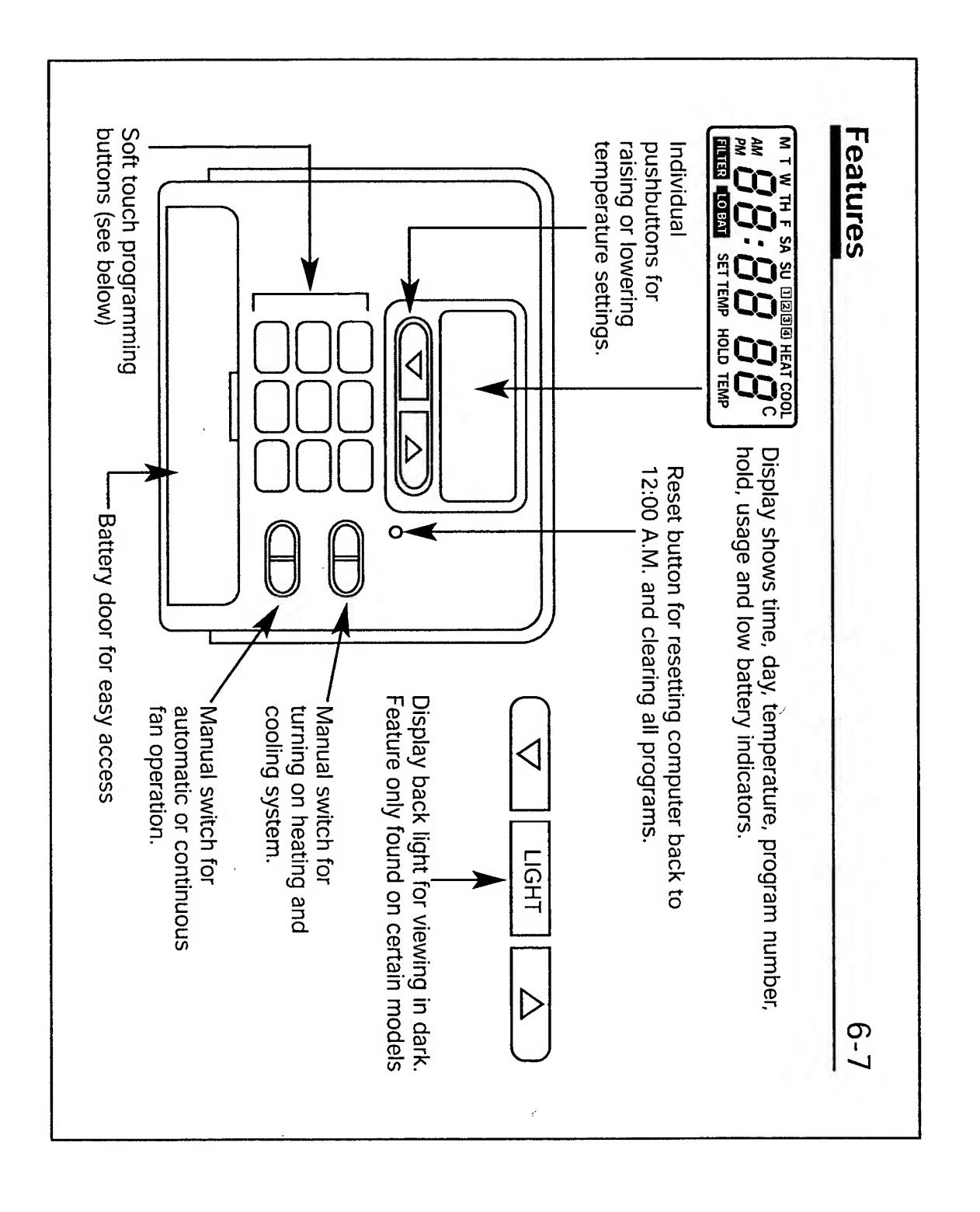
CAUTION: The batteries are the only source of power used to operate your system. If you do not replace the batteries, the display will dim and your heating and cooling system will stop operation.

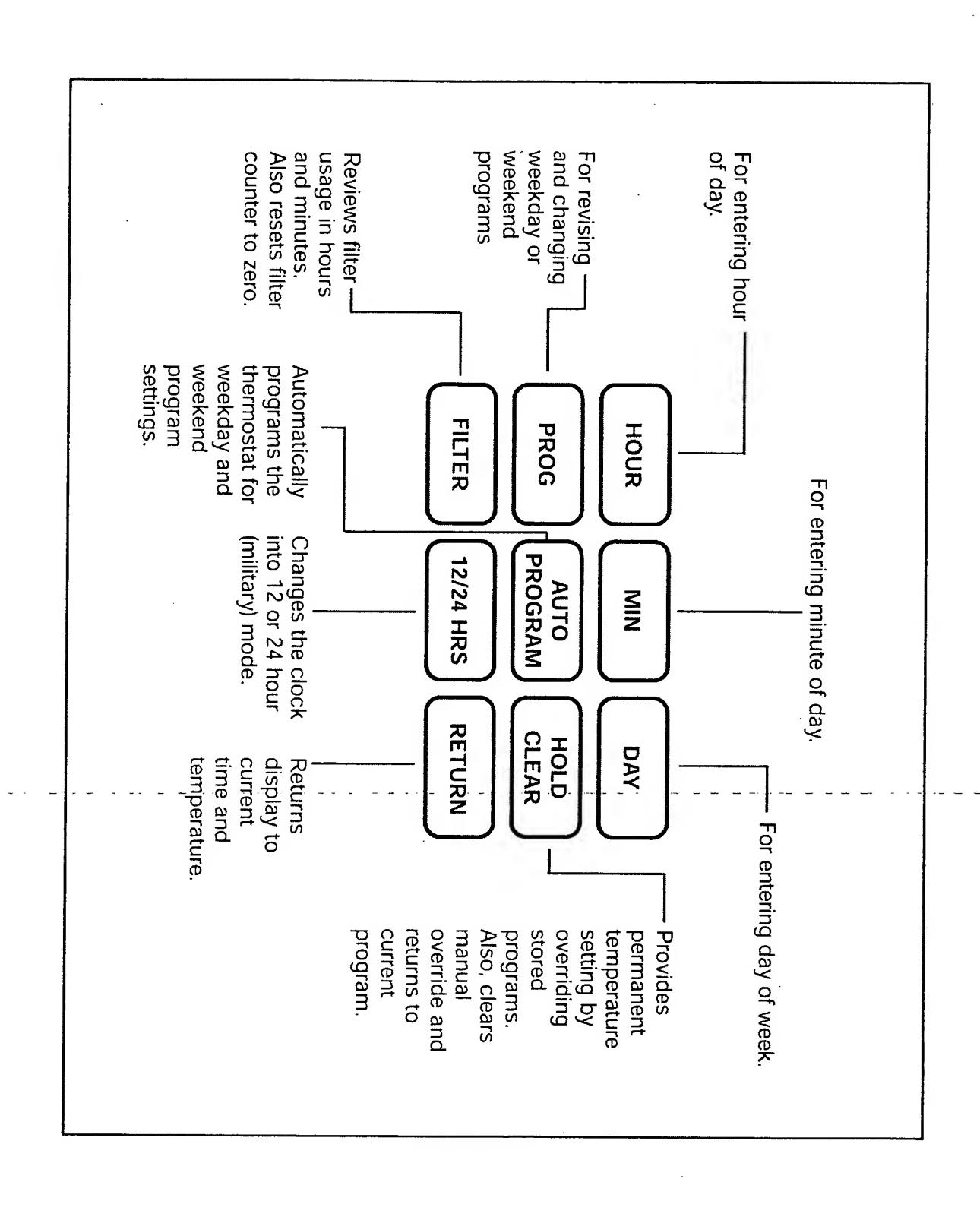
NOTE: If you plan to be away from the premises over 30 days, we recommend that you replace the old batteries with new alkaline batteries prior to leaving.

How This Thermostat Works...And Saves You Money

does this by matching your comfort (the temperatures in your home) to your schedule. This thermostat is designed to optimize the use of your heating and cooling equipment. It An example:

- 6am You wake up. Program 1 has the heat set to 70° (21°C).
- 7:30am You leave for work. The second program turns the heat back to 62° (17°C) while you are away.
- 5:00pm You come home. The third program has already warmed your house back to 70° (21°C).
- 10:00pm You go to bed. A half hour later, program 4 turns the heat back to 64° (18°C) to save energy while you are under the blankets.





Installation



What You Need

install your unit, you should have the following tools and materials. This thermostat comes with two #8 slotted screws and two wall anchors for mounting. To

Slotted screwdriver

Hammer

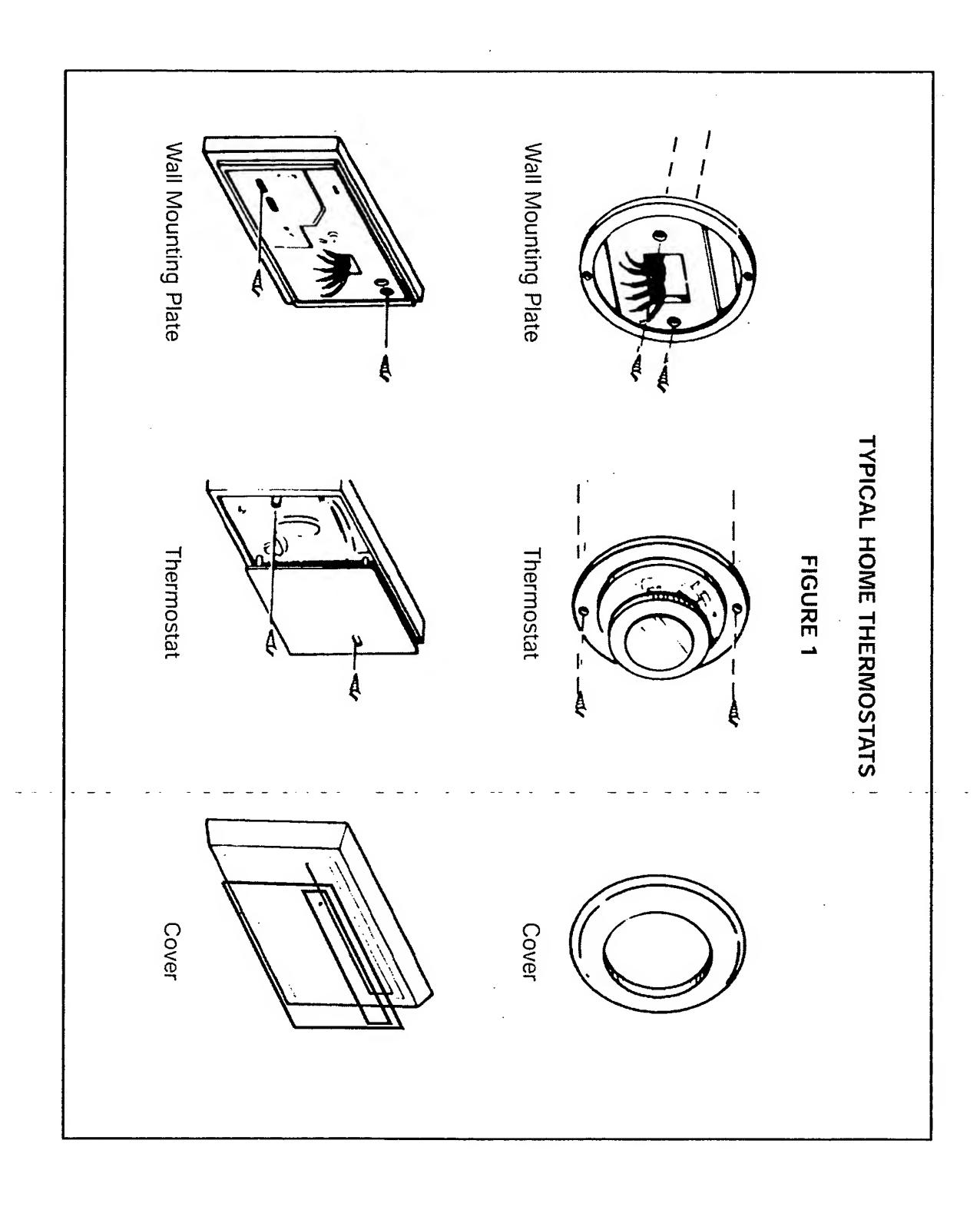
- I Electric drill and 3/16" bit
- Two 1.5V (AA) Size Alkaline batteries

Remove Old Thermostat

instructions carefully. Wires must be labeled prior to removal. CAUTION: Do not remove any wiring from existing thermostat before reading the

- I IMPORTANT! Turn off the power to the furnace at the main power panel or at the furnace
- Remove existing thermostat cover and thermostat. See Figure 1. Some thermostats will have exposed, look for wires. screws or other locking devices that must first be removed. Once wall mounting plate is

screws, tabs, etc. Some models have doors that open to expose wires and mounting screws. If wires are not visible, they may be connected to the back of the wallplate. Again, look for (See Figure 1).



Installation 10-11

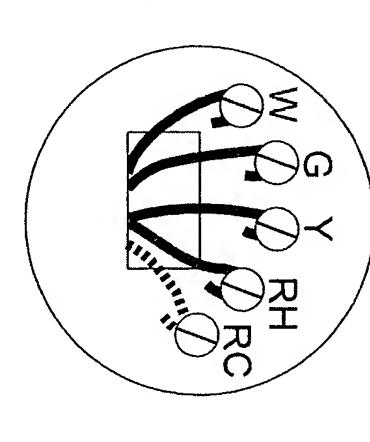
abel Wires

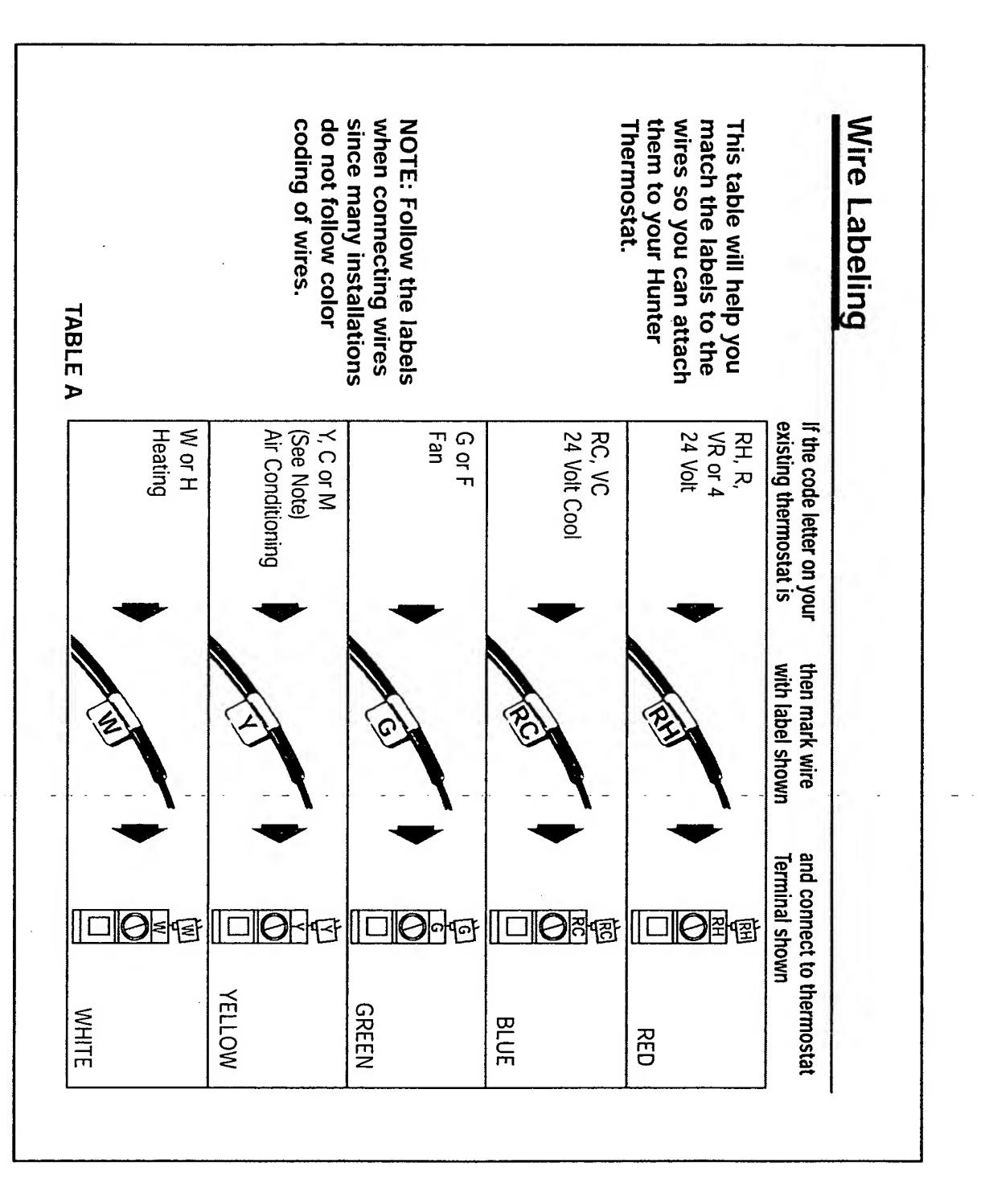
that thermostat. Each of these terminal points is usually marked with a code letter as shown in Table A on page 11. Each wire coming from the wall to the existing thermostat is connected to a terminal point on

eight, or any number in between. If you follow the labeling have to be concerned about how many wires there are. The number of wires in your system can be as few as two (for heat only systems), as many as procedures correctly, you do not

to the W terminal to complete the circuit. Do not worry, just connect either of the wires to the RH terminal, then connect the other wire There is often no terminal marking on the existing thermostat of two wire, heat only systems.

- IMPORTANT! BEFORE DISCONNECTING ANY WIRES, APPLY THE SELF-ADHESIVE LABELS label marked W to the wire which goes to the W or H terminal on your existing thermostat.) PROVIDED TO THE WIRE AS SHOWN IN TABLE A ON PAGE 11. (For example, attach the IGNORE THE COLOR OF THE WIRES since these do not always comply with the standard
- I After labeling wires, disconnect them from the existing thermostat terminals.
- Remove existing wallplate. To make sure wires do not fall back into wall opening, you may want to tape them to the wall.
- If hole in wall is larger than necessary for wires, seal this hole so that no hot or cold air can enter the back of the thermostat from the wall. This air could cause a false thermostat reading.





Installation 12-13

Wire Labeling

NOTE: If your thermostat has one wire marked R or RH (4-wire system), then leave the jumper wire between the RH and RC terminals. Otherwise, if you have separate RH and RC wires (5-wire system), then remove the jumper wire between the RH and RC terminals.

this thermostat. Tape up the wire and do not use. This wire provides electricity to nonbattery powered thermostats. NOTE: Do not connect a "Common" wire (sometimes labelled "C") to any terminal on

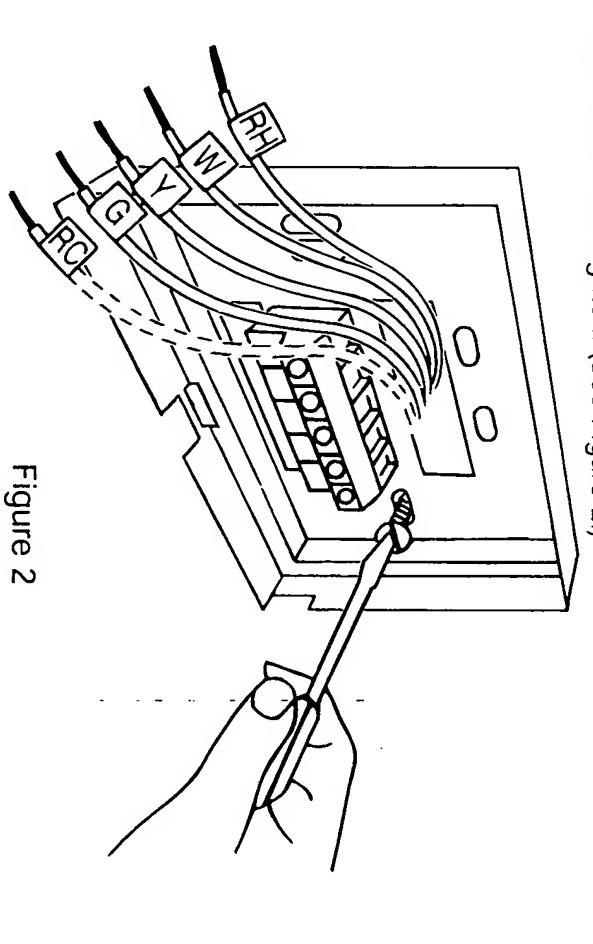
Mount Wallplate and Thermostat

Snap open the wallplate from your thermostat by pressing the thermostat. the release tab on the bottom of

Position wallplate on wall and pull existing wires through large opening. Then level for appearance. Mark holes for plastic anchors provided if existing holes do not line up with Hunter Thermostat holes.

Drill holes with 3/16" bit and gently tap anchors into the holes until flush with wall.

Reposition wallplate to wall, pulling wires through large opening. Insert mounting screws provided into wall anchor and tighten. (See Figure 2.)



Installation 14-15

Selector Switches

Circuit Board The heating system selector and the F°/C° selector switches are located on the Printed

Heating system selector

thermostat. The switch is at "HG" position. Leave it in this position if you have a gas furnace or an oil burner. The heating system selector is a switch on the Printed Circuit Board on the inside of the

thermostat calls for heat, change the switch position to "HE." If you have an electric furnace, test to see whether the expected. Leave the switch in the "HG" position. If the fan does not come on when the heat and fan come on as

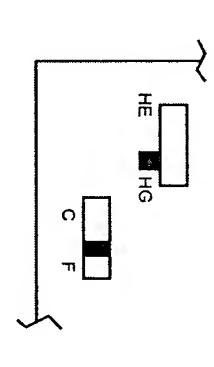
The system selector has no effect in the cooling mode.

electric systems having a fan relay. NOTE: "HG" position is for gas and most other systems. "HE" position is for certain

■ F°/C° selector (Fahrenheit/Centigrade)

Your thermostat is set for F° mode from the factory. In order to change to C° mode, slide the switch to C° and press reset button on front of the thermostat with a paper clip. The reset button is located near the display.

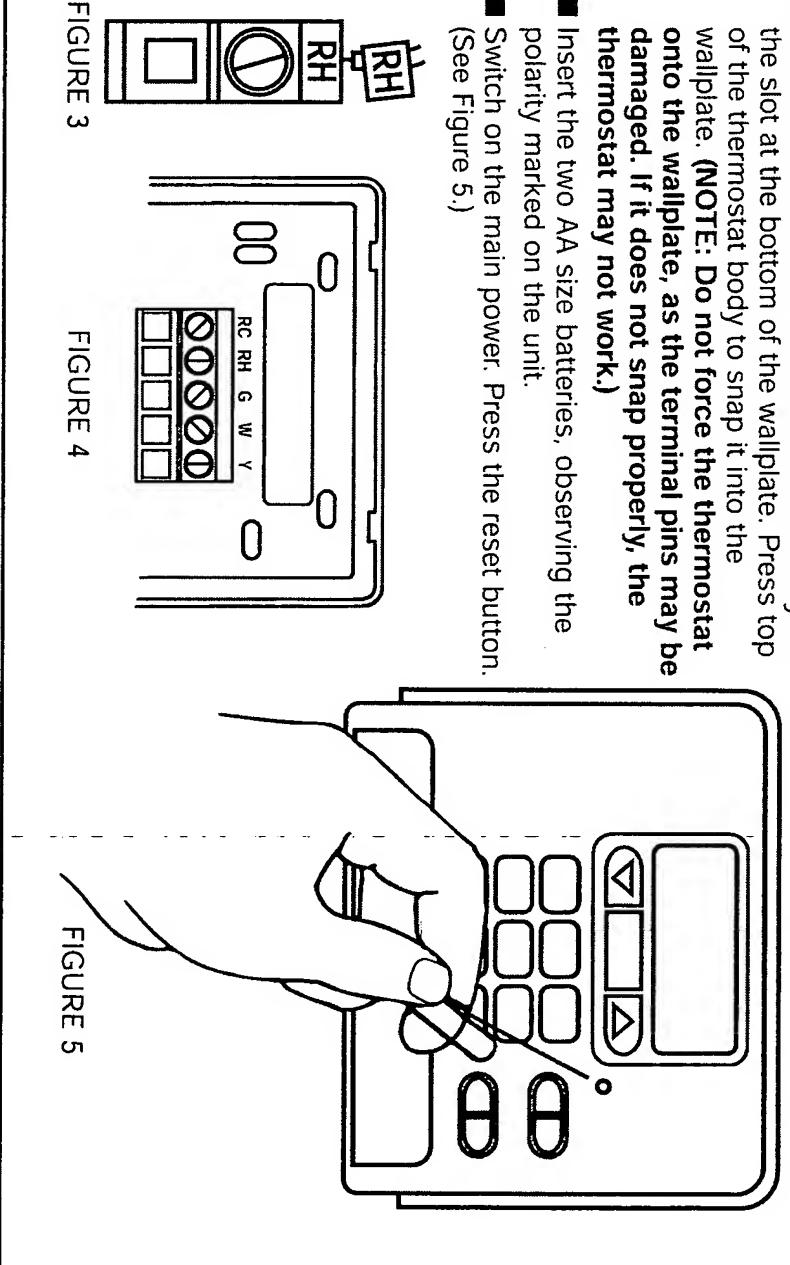
NOTE: Unless reset button is pressed, the thermostat will not change the mode.



Connect Wires and Mount Thermostat Cover to Wall Plate

Match and connect the labeled wires to the appropriate coded terminal screws on the not connected to the old thermostat. mounting plate. (See Figure 3, 4.) Ignore any wires whic h may be present, but which were

- Match and connect the labeled wires to the appropriate coded terminal screws on the not connected to the old thermostat. mounting plate. (See Figure 3, 4.) Ignore any wires which may be present, but which were
- Be sure to tighten the terminal screws securely, otherwise problems with your system or thermostat. a loose wire could cause operational
- Push excess wire back into hole to prevent interference with mounting of the thermostat cover.
- Make sure the Function Switch is set at OFF, and the FAN-AUTO Switch is in AUTO.
- of the thermostat body to snap it into the onto the wallplate, as the terminal pins may be wallplate. (NOTE: Do not force the thermostat the slot at the bottom of the wallplate. Press top damaged. If it does not snap properly, the Insert the bottom tab on the thermostat body into



Programming



16-17

- window. Remove mylar label covering display
- will appear on the display. When the heating or cooling system is actually operating, "HEAT" or "COOL"
- keep all programs. If power is interrupted the batteries will
- display replace the batteries. If "LOW BATT" indicator appears on the

Setting the Time and Day of Week

time to Monday, 12:00 a.m., shows the current room temperature and is programmed for 68° When you first install the two AA batteries, the thermostat automatically sets the day and

in heat mode and 78° in cool mode. Press the reset button after installing new batteries.

the display will show the data being entered. The first data you should enter is the current time and day of week. As the keys are pressed,

EXAMPLE:

being 9:15 p.m., installed at keys in the you would thermostat, set the Saturday, to press the If the unit is

sequence.

shown

- Initial read-out after pressing reset button.
- Current room temperature is 72°.
- No indication of program number.

AM 12:00

Press once. Temperature digits disappear, show time set mode.

HOUR

M 12:00

RETURN HOUR DAY Z Z ■ If return is not pressed it will return Returns to normal time and Press until current day appears I Press and hold until current hour temperature. on display. Press and hold until current automatically in 10 seconds. minutes appear on display. appears on display. Z PM

Programming



8-19

Typical Suggested Summer and Winter Programs for Maximum Savings

Studies conducted by the Department of Energy estimate that setting your thermostat back 10°F for two 8-hour periods during winter can reduce your fuel bill by as much as 30%. By setting your thermostat up 5° for two 8-hour periods during summer you can reduce your fuel bill up to 25%.

Your thermostat is capable of holding up to 4 separate programs for heat or cool for weekdays and 4 seperate programs for each weekend day.

A typical set of programs is shown in Table 1.

TABLE

Weekday Program (Mon. - Fi

| 1001.00 | ۲ | 3 | College Colleg |
|----------------------|----------|------------------------------|--|
| Weekday Program | د | 6:00AM | Winter 69°F (21°C) |
| Weekday Program 2 | 2 | 8:30AM | Winter 60°F (16°C) |
| Weekday Program 3 | ω | 3:00PM | Winter 68°F (20°C) |
| Weekday Program | 4 | Weekday Program 4 11:00PM | Winter 58°F (14°C) |
| | | | |

take effect immediately after programming of your thermostat but at the next programmed time/temperature change. The thermostat is pre-set to 68°F (20°C) for heat and 78°F (25°C) for air conditioning. So if you want a temperature other than 68°F or 78°F (20°C or 25°C) right away, use the temporary manual override feature (described on page 26) to enter your desired temperature setting.

When your program becomes effective at the next time/temperature setting, the appropriate corresponding program number will appear on the display.

Weekend Program (Sat.)

NOTE: The thermostat program will NOT

| Weekend Program | Weekend Program |
|-----------------------|--------------------|
| 2 | _ |
| 11:00PM | 7:00AM |
| Winter 58°F (14°C) | Winter 69°F (21°C) |

Weekend Program (Sun.)

| Weekend Program | ····· | 7:00AM | Winter 69°F (21°C) |
|--------------------|-------|-------------|-----------------------|
| Weekend Program | 2 | 2 11:00PM | Winter 58°F (14°C) |

Programming

20-21

Personal Program Schedule

Before programming or changing the program, use this Personal Program Schedule to determine which times and temperature settings will best satisfy both your comfort and energy saving requirements.

FOR WINTER

| PROGRAM WAKE NUMBER 1 | | LEAVE 2 | RETURN SLEEP 3 4 | SLEEP 4 |
|-----------------------|------|--------------|------------------|------------|
| MON. | TIME | TIME | TIME | TIME |
| FRI. | TEMP | TEMP | TEMP | TEMP |
| SAT. | TIME | TIME | | |
| | TEMP | TEMP | | |
| SUN. | TIME | JIMIT | | |
| | TEMP | TEMP | | |

SUN.

TIME

TIME

TEMP

TEMP

TEMP

TEMP

FOR SUMMER

| SAT. T | FRI. | MON. T | PROGRAM WINDWIND NUMBER 1 |
|--------|------|--------|---------------------------|
| TIME | TEMP | TIME | WAKE 1 |
| TIME | TEMP | TIME | LEAVE 2 |
| | TEMP | TIME | RETURN SLEEP |
| | TEMP | TIME | SLEEP 4 |

Use a pencil so you can revise your records each time you change your temperature settings.

Programming Your Thermostat

Your thermostat can be programmed in two different ways.

- 1. Auto-program method
- 2. Manual method

Before programming, position the Heat/AC selector to the type of program desired.

Auto-program method

In auto-program method, you can program your thermostat instantly for the entire week by simply pressing "Auto Prog." key once. When this key is pressed, standard program gets activated and your thermostat is programmed automatically. The standard program is shown in the table.

If you wish to change this program to suit your life style, you can do so by changing the time and the temperatures of those programs which you want to be different than standard programs. The method is explained in the manual method of programming.

Press AUTO Your thermostat will be

programmed automatically according to Table 3

| | PROGRAM NUMBER | TIME | TEMP II | TEMP IN F° (C°) |
|--------|-------------------|---------|---------|-----------------|
| | - | | HEAT | COOL |
| MON | _ | 5:00AM | 68 (20) | 78 (25) |
| FRI. | 2 | 7:00AM | 60 (15) | 85 (29) |
| | ω | 3:00PM | 68 (20) | 78 (25) |
| | 4 | 10:00PM | 62 (16) | 82 (27) |
| SAT. & | | 5:00AM | 68 (20) | 78 (25) |
| SUN. | 2 | 10:00PM | 62 (16) | 82 (27) |

TABLE 3

(If the slide switch is in the heat mode, only heat program is effective. In order to activate cool program, slide the switch to cool mode and press "Auto Prog.")

Manual method

In this method, each program is inserted according to your personal programming schedule.

When the battery is first inserted, the thermostat is programmed for 68°F (20°C) in heat mode and 78°F (25°C) in cool mode.

NOTE: There are no energy saving time or temperature settings.

22-23

Programming Your Thermostat (Continued)

per suggested program on pages 18 and 19. programming. In this example your thermostat will be programmed for winter as Familiarize yourself with manual

> NOTE: 1) increments of 15 minutes. The program time is set in

set in increments of 1°F. The program temperature is

7

Weekday Press

Programs

Display Reads

TEMP

■ Normal display of time, temperature, and day of the week.

Step 1

PROG

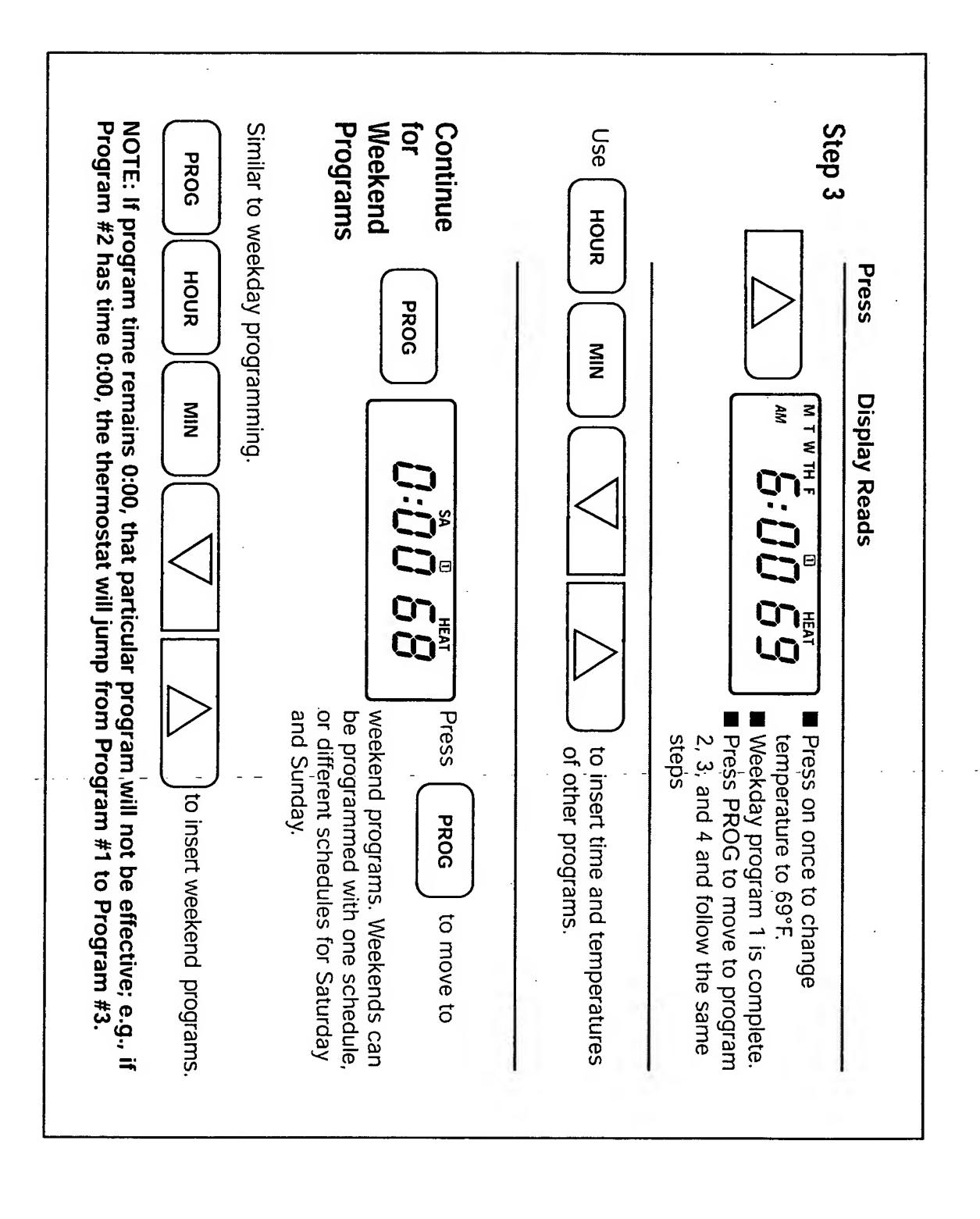
- Program indicator (1) is displayed.
- l 68°F is displayed.
- 0:00 space for time is displayed
- M to F is displayed.
- displayed.

Step 2

MTWTHF Sign Heat

HOUR

Press and hold until 6:00 is



You may want to review the programs to see that the settings are compatible with your lifestyle. Reviewing **Programs**

Weekday Program

Μd

 Normal display of current time, temperature, and day of week.

PROG

AM T W TH F

- M to F indication appears. Program indicator (1) appears. 1st weekday program is displayed.

Continue pressing

PROG

to review programs.

but at the next program time change. The Thermostat is pre-set to 68°F in heat entered will NOT take effect immediately, NOTE: The temperatures you have mode and 78°F in cool mode.

to enter the temperature you want. or 78°F right away, you must use the manual override feature described below If you want a temperature other than 68°F

> number will appear on the display. effective, When your entered program becomes the corresponding program

the new programs by pressing After programming, confirm

PROG

To Review The Current Temperature Setting:

9:15 58 TEMP

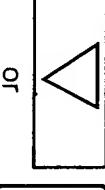
Current time and temperature

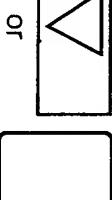
Press for 2

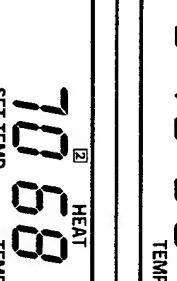
seconds

or less:









the present room temperature as 68°F. the thermostat is 70°F. 68 shows 70 indicates the current setting of

If held for more than 2 seconds,

you will manually override your

present temperature to a new

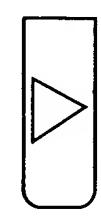
setting as explained below.

Manual Override of Program

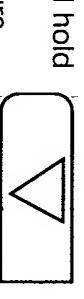
If You Want to Change the Temperature Without Affecting Your Program:

Press and hold

temperature.

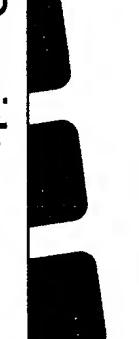


temperature. to lower Press and



The new temperature will hold until the next program time is reached.

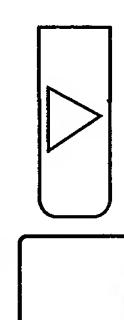
Programming

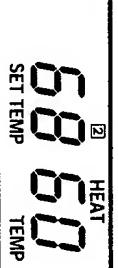


26-27

Temporary Manual Override

In the following example, the present room temperature is temperature to 70°F temporarily until the next program. 60°F and we want to raise the





Press arrow to display current set and room temperatures.



- Seconds, the set temperature digits will blink and begin to increase until the button is released at the desired setting (in this case 70°F).
- Program number flashes.
- Press return or in 10 seconds it will return to showing current time and temperature.
- To display a manual override setting, press either arrow for less than 2 seconds.
- When arrow is released, the display will show current time and temperature.
- Your thermostat is now in manual override mode to 70°F until the next program. Indicator number flashes until the next program time comes into effect.

Programming Your Thermostat (Continued)

Permanent Manual Override

HOLD CLEAR

SET TEMP HOLD TEMP

press HO page 26, override instructions on period of override for vacation or just an extended In the event you wish to hold your manual then immediately time, follow the temporary manual LD/CLEAR. HOLD CLEAR

appear on the display. setting indefinitely. "HOLD" will This will maintain override

To Return To Program*

HOLD CLEAR

override state) (*From temporary or permanent manual PM

NOTE: You can also return the current in permanent override mode. program by pressing "HOLD TEMP" once

> will disappear if you were in number appears. "HOLD" current program, press HOLD/CLEAR until program To return immediately to the permanent manual override.

> > HOLD CLEAR

Other Features



28-29

Temperature Span

Your thermostat is pre-programmed at the factory to cycle when the temperature rises 1° above or 1° below the temperature

setting to provide maximum comfort. It cannot be changed.

Backlighting (Model 44250 only)

Press (

LIGHT

Your thermostat comes with an electroluminescent lamp for easy viewing of the display in the dark. To activate press the "light" button between the up and down arrow keys.

The display will remain backlit for approximately five (5) seconds. If another button is pushed, the five second timer will reset, and the light will turn off five seconds after the last button is pressed.

Operations

Using the Filter Review Feature

clean your filter regularly. number of hours your filter has been in use To maximize energy efficienty, change or Your thermostat also keeps a record of the

To help you remember, at 500 hours, the word "FILTER" will appear on the display, reminding you to change the filter and reset

> back to zero. continue the counter back to zero. The "FILTER" will to display if the counter is not set

from zero Filter review will display up to 999 hours and 59 minutes of usage. Counter will start of usage. after 999 hours and 59 minutes

2 Seconds Press for

or Less

FILTER

FILTER 8E 5h

Indicates the usage of filter or total usage in hours and minutes. For counter will reset to zero.) example, 145 hours and 38 minutes. (If held for more than 2 seconds, the

AM TEMP

RETURN

- - Back to normal display of time and temperature.
- Auto-return after 10 seconds if no key is pressed.
- 8E Sh Indicates the usage of filter or total usage in hours.
- FILTER $0 \ 00 \ 00$

3 to 4

Hold for

Press and

Seconds

counter back

To reset filter

to zero.

FILTER

FILTER

- I The counter will reset to zero.
- I When released, returns to current time and temperature.

| Problem | Solution |
|---|--|
| SCRAMBLED OR DOUBLE DISPLAY (numbers over numbers | 1. Remove clear mylar sticker. |
| NO DISPLAY | Check battery connections and batteries. Press reset button once with a small pin and hold in for two seconds. |
| ENTIRE DISPLAY DIMS | 1. Replace batteries. |
| PROGRAM DOES NOT CHANGE AT YOUR DESIRED SETTING | Check that time is set properly to "AM" or "PM." Check that thermostat is not in "HOLD" mode. Check for correct day setting. |
| AUTO/FAN DOES NOT COME ON | 1. Move HG/HE system selector to opposite |

HEATING OR COOLING DOES NOT GO ON OR OFF

- 1. Check that function switch is in correct
- 2 position ("HEAT" or "COOL").

 There may be as much as 20 seconds delay in the thermostat turning the system on - wait and check.
- 3. Check your circuit breakers and switches to ensure there is power to the system.
- 4. Replace batteries.
- 5. Make sure your furnace blower door is closed properly.
- 6. If your system only uses 4-wires, be sure the jumper wire is installed between the RC and RH terminals.

ERRATIC DISPLAY

Press the reset button once with a small pin and hold in for two seconds. Then reprogram.

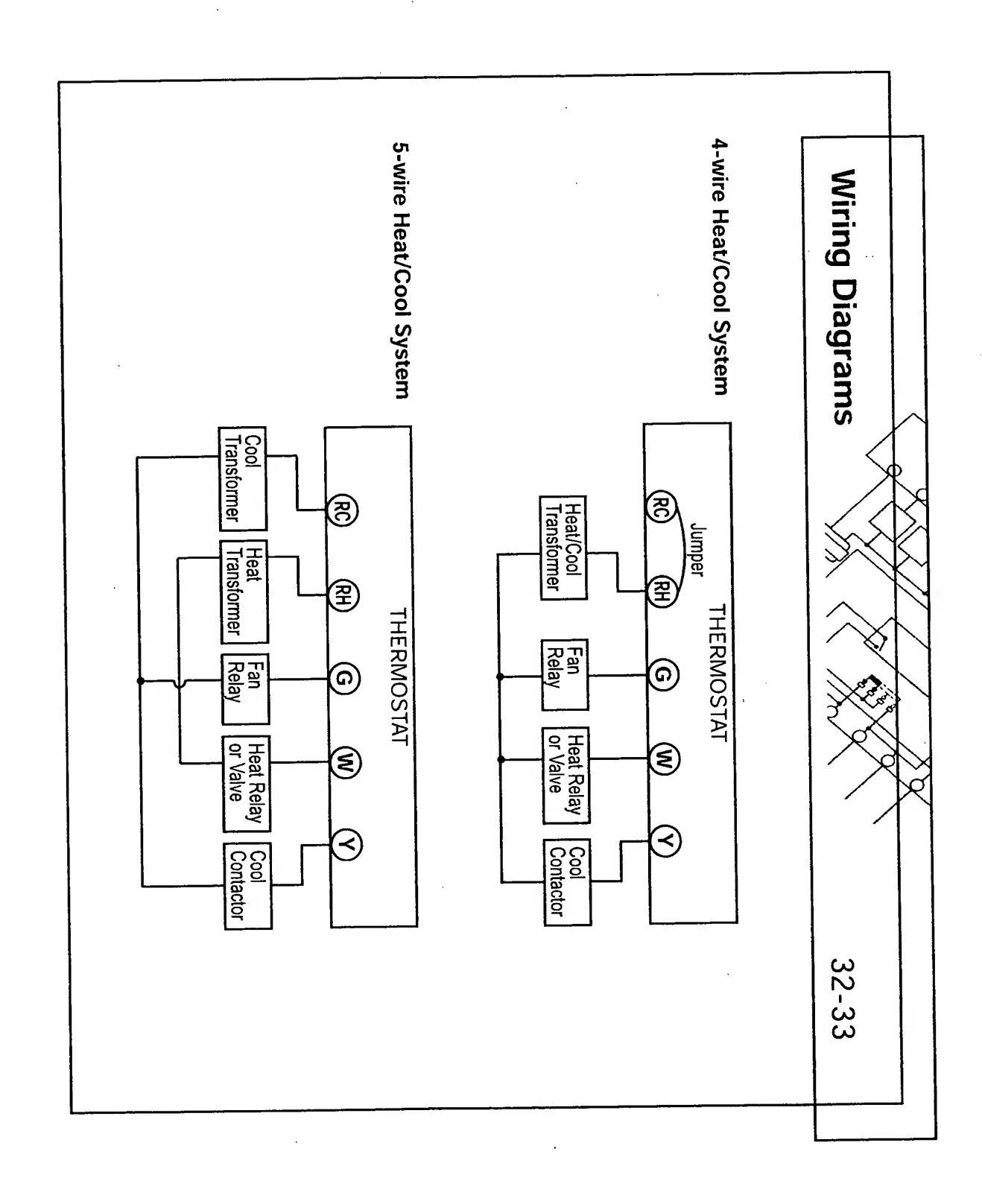
IF UNIT CONTINUES TO OPERATE IN OFF POSITION

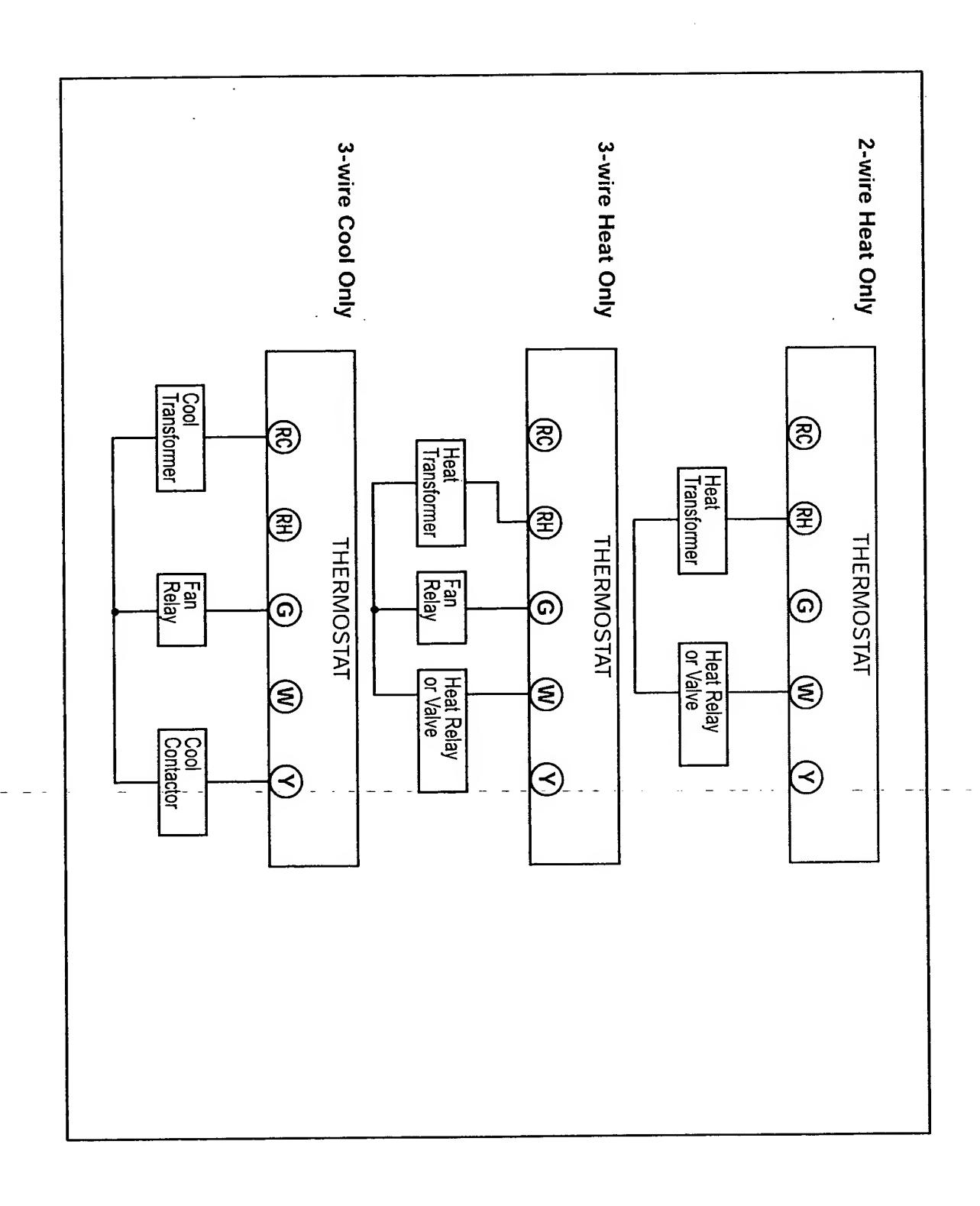
._ Replace e unit.

PERMANENTLY THERMOSTAT READS, HI, LO

Replace e unit.

If you experience any other problems, call 1-800-676-7861 time for technical assistance. from 8AM to 5PM Central Standard





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